By M. MAC LEAN.

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AGRIGULTURAL.

FROM THE BOSTON CULTIVATOR. A NEW MODE OF MAKING CLOTH.

A Correspondent of the Post writes from London that an American by the name of Wells has invented a new mode of manufacturing wollen cloth which will reduce the expense not less than three fourths. It is made without spindle and without loom and is fully equal to any spun or woven broadcloth. Our readers well know that hats have long been made dicate the best breeds. It cannot be long of wood without a single thread, and that the body of the manufactured article is more firm and durable than any woven cloth.

If it be a fact that three fourths of the labor may be saved by compressing the wool instead of spining it and weaving it, lieve it to be the only satisfactory kind. the advantage to this country will be greater than to any other in proportion as labor is higher here than elsewhere. The writer of the letter says:-

About six months ago. I was introduced to an American who visited this country patent for a new method of manufactring woollen cloth, all of which appears very well and possessed important improvements over the English broadcloth, andcasticle, I did not make any mention of it at that time, for however sanguine an inventer of any new instrument may be, or however convinced the discoverer of any new the ry or system may be, that it is superor to all others, the public do not always find it to prove such. As this woollen cloth is now offered for sale and as sever. al of the large London houses have pur. chased hundreds of pieces for the purpose woollen cloth of every sort is produced at less than a fourth of the cost hitherto usual. The material is not woren but compressed. Two urchins with the machine. broadcloth in twelve hours; and where guise.' twenty-four shillings were demanded per turers abundant remuneration. We have inspected and handled, as roughly as we liked, specimens of every variety, from the finest scarlet cloth for officers' unitouch distinguish them from correspond-

ing pieces made in the old fashion.' great revolution among the manufacturers, for already they discover that it is something more than a mere bubble of an hour. The Austrian government has purchased the right to manufacture in the result. Austria, and several other rights to manin this country, which turn out daily sev- neat. eral hundred pieces of the cloth of various qualities. Soon the markets here will as Mr. Wells, who is a New Yorker, in- 178 pounds each, neat. formed me that so soon as he had comseveral large factories in America. Mr. the blooded pigs. Wells has worn a frock coat made of his new cloth, almost every day during the last six months, and it is an elegant garment even now-the material being and 298 pounds, neat. compressed, there is no thread in it, and the nap has the same smooth, glossy appearance as when I first looked at it.-The cheapness, durability, and beautiful cided advantage over all other kinds. So most extensive dealers in cloths in Lon-

From the Kentucky Farmer.

IMPROVED BREEDS OF HOGS. It is not our purpose to take a side in the old-ordinary treatment. controversy; being determined to deal

Two new subscribers may take the paper at ingly keen vision in looking at one side of a subject and is utterly blind in view- this to the Kentucky Farmer. ing the other. Long ago, and repeatedly since, we proposed a test by which the relative merits of the various breeds of hogs Papers not discontinued to solvent subscribers could be satisfactorily ascertained; and which the country is compelled to adopt, noting carefully all the facts involved in the experiment. When this proposition was first made, it was objected, that the demand for blooded pigs, for breeders, was too great to allow a sufficient number of The postage must be paid on letters to the them to be devoted to the experiment .-The "pig business" is indeed too profitable to be abandoned for the sake of making experiments and we have strong doubts whether any of the prominent breeders of the various vaunted breeds can ever be induced to go into such an experiment as is proposed. But the object can be effected in spite of them and without their co-operation. Many farmers have purchased blooded pigs, not for the purpose of going into the "pig busines," but of improving their stock; and they will rear litter, I think, (a mere matter of opinion,) those different breeds in general and not their progeny, not under the stuffing and gorging system, but in the usual way, and the results of such treatment will intill we shall have reports of practical ex-&c. &c. This is the kind of information we have sought to elicit, because we be-

We have some facts, relating to various ing from our private correspondence, believing that the writers can have no obare interesting in themselves and may for the purpose of securing a valuable lead to the development of others more explicit and satisfactory.

We begin with the statement of an experiment by Mr. B. P. Gray of Woodford, Berkshires* in weight at the same age, perhaps you are not apprised, that detract made in the usual practice of rearing hogs. but that is nothing. The only fair and much from their merit and high standing simere; but as I know little about the ar- It will be recollected that we published proper test would be such as you propose, in my esteem; but as you are the owner an experiment (Vol. 3, p. 142.) of this 50 or 100 head of each grown up and fatted of all those different breeds, I will say. gentleman upon half blood Thin rinds, in the common farming way of the counhighly favorable to that breed. The pres- try, an accurate account kept of their food ent experiment relates to some pigs by an and then see which has given the most that the writer should substantiate his Irish bear out of half blood Thin rind and best pork for it; nothing less than opinions by the facts. sows and a comparison between them this would be satisfactory. But can Dr. and some pigs of scrub breed. The result will astound two classes of men,-those who deny the great superiority of blood and those who affect to ridicule the Irish of introducing it, I am justified in calling and Thin rind hogs, for neither of them attention to it .- The Col mial Gazette are now considered the "fashionable" thus noticed the patent several months breed. We have the notes before us fursince. "Mr. Wells has invented a machine nished by Mr. Gray and no one who knows and has discovered a process by which him will doubt the correctness of his statements. And it is proper to say that he is not a "pig dealer;" his hogs were reared and killed for the use of his own family; feed, for the first year of their lives. A your arguments in avoirdupois. No hum- ble quantity in the soil, is essential the production of successive crops; but and no one must regard this notice either can turn out one hundred yards of the as a "puff or an advertisement in dis-

He killed 46 hogs last fall. Of these, yard, six shillings afford the new manufac- 22 were scrubs, pigged in October 1839; the residue were out of half blood Tuin rind sows by an Irish boar, 22 of them pigged in January 1840, and the other two pigged in October 1839 about the ary No. of the Cultivator. They had not forms, down to blankets and carpets, and time of the scrubs. The scrub pigs were arrived when I left but he says they show we certainly could not, either by sight or well wintered in the usual way; and as great vigor and constitution; and, notwithsoon as the blooded pigs were weaned, the standing their size, are equal in fineness whole 46 were turned together and well of point to my very best Shaker and other The new cloth is likely to create a treated. The clover was good but the rye stock. The oldest boar, he adds, is supewas very indifferent [nobody grew good | rior to any thing he ever saw, not exceptrye last summer.] The whole were put | ing the last sent out by Hawes to Lossing | up together in a pen on the 15th of Sept. and the Brentnalls-their color and char-1840, to be fattened on corn. Now mark acteristics same as Hawes' importations.

The 22 blooded pigs, pigged in January ufacture it in England and France have 1840, slaughtered November 19, ten also been purchased. There are four or months old, weighed neat, 5120 pounds, five large mills now in constant operation being an average of 232 pounds each, In this valley, [the Scioto] and in New

The 22 scrubs, pigged in October 1839, slaughtered December 17, near a month 300 lbs. at 18 months; and a few large be filled with it, and no doubt a large later, when fourteen months old, weighed Berkshires I brought down wont sell at all quantity will be sold in the United States neat, 3930 pounds, being an average of among them, while the medium size go

pleted all his arrangements for supplying fed on corn near a month longer, averaged or any where else. I give you an extract the European markets, he should establish each, 54 pounds less than the average of of a letter just received from John Mahard

same time of the scrubs, and killed a month sooner, weighed respectively, 306

The heaviest blooded pig weighed, neat, 296 pounds, the lightest, 192; the heaviest

scrub, 206, lightest, 104. These facts need no comment; they appearance of this cloth must give it a de- speak for themselves and every farmer stated that they stood the journey better can make his own calculations as to the than any other hogs in the drove; and alfar it has met with great favor from the relative value of blooded and common though several of the common hogs gave pigs. The scrub pigs were considered of out and had to be left behind, every one good stock; and we presume the weights of the half Berkshires came safe through they attained will prove them equal to the | to market.' average of common hogs.

Mr. Joseph Reed, of Montgomery coun-There has been much controversy in ty, had 6 pigs, pigged about the first of Kentucky in reference to the relative April, by Dr. Combs' Berkshire boar, out ments of the various breeds of improved of a common sow, which averaged 175 neighbors, I suggest your obtaining the hogs; and the subject has indeed engen- lbs. neat, killed about the middle of No- statement from him and publishing it." dered some of the spirit of partizanship. vember, when seven and a half months

We will now quote from a letter by Dr. with the utmost impartiality towards the Martin, dated Dec. 7, 1840. He is a the advocates of each of the various distinguished breeder of cattle and various scribed it in a private letter under date failures in practice. As a general pracbreeds. Our object shall be, in conduct- breeds of hogs, but is understood to be an December 23, but with no view of its tice, salting land for its fertilization, at

honest collision of sentiment favorable to three year olds had been used as boars. - grounds on which they are based. But of predatory insects, (if taking care not making silk.' Is not the labour applied in the investigation of truth; we deprecate No. 1, weighed 640 lbs; No. 2, 630; No. that partizan spirit which has an exceed. 3, 660; No. 4, 748; No. 5, 824. 7 1-2 off tive spirit of investigation and he, too, crop on the land,) and still more probably of making silk? How can we make cot. each for weight of breeching-I have sent | coincides with us, that the gorging system | as a specific manure, or food essential for | ton goods, or woollen goods; how can we

I had some pigs, pigged 23rd of last thank him for his facts. December; they were kept with their mother, after some cattle, until April, dred were turned upon a stubblefield and of each, reared in the best manner, is not little down until a storm 3rd of October. | vidual animals possessing that conforma-They stayed here until put up to fatten | tion which experience has proved constiand were killed 17th November and tutes them the most valuable of their speweighed neat meat 261. These were the cies, which has been the result of accident refuse of the Woburns-I dont know aided by extraordinary care and judgment lied: what the best would have done. I killed in rearing, and is not a characteristic of a pig, a little older than Gov. Wickliffe's their race. It is sorretimes the case too, boar which was pigged 14th February, that this form is imparted by a single cross with same kind of treatment as the last, and never appears in their progeny. It that weighed 250 lbs. neat. I killed a re- is a fact also, that one particular breed of fuse pig; much the least in the litter, fine animals, crossed upon an inferior pigged 14th May, half white Berkshire race, will make a great improvement. We weighed 110 neat meat. The best of this of settling this matter would be to examine would have weighed 200 lbs. each."

and the length of time they were fully ly are. This course of examination we periments, showing the entire treatment, fed, is about as definite and satisfactory commenced at your house. We have the ages, the amount of food consumed, as the phrase—"big as a piece of chalk." since looked at other herds. We have the weights attained, travelling qualities, And the Doctor had been more satisfacto- seen the cross of the Woburn, the Berkthe length of time they were corn fed.

A. B. Allen, Esq. of Buffalo, New York, of them, through their crosses and in breeds, which we take the liberty of glean- a distinguished breeder and advocate of themselves, for all the purposes for which Berkshire hogs, under date, Columbus, O. | they are designed, we unhesitatingly pro-December 9, 1840; and we are glad to nounce the Woburn the best hog. We jection to their publication. The facts find one so eminent, concurring in our have seen them crossed in every way and views as the proper mode of ascertaining the result has been invariably, an obvious the real merits of the various breeds.

that the Woburns can beat the present breeds, crossed upon the scrubs, of which Martin show a gain of upwards of three long enough to judge of them by their real Brentnalls made a Berkshire barrow do ascertained in practice. We mean to March or April number of the Cultivator. | and if the facts regarding the merits and they are derived will gain 1 3.4 to 2 lb. your va.ious breeds. State your treatof the boars actually weighed on the now due; let's have them. scales, on arrival, 520 lbs. at 18 months old, though thin in flesh. My brother will make a statement of them either in his own or my name, for December or Janu-The stock of my Prince Regent, imported last fall, has proved very fine and has taken premiums wherever exhibited, but it is hardly large enough to suit Kentucky. York, 'tis much admired. Breeders here tell me they dont want a bigger hog than rapidly. As to their driving, I know the So the scrubs, four months older, and longest legged ones cant be beaten in mud jr. of Cincinnatti, one of the largest pork The two blooded pigs, pigged about the packers there. He wrote me unsolicited

in the way of business: ·We have just got through cutting and packing 1280 hogs, for J. B. Kenney, Esq. and others, who drove them from near Georgetown, Ky., a distance of about 80 to 100 miles and in the drove they had five or six half blood Berkshires and they

To be sure this is but a small and partial experiment, but it goes to prove my assertions regarding their driving qualities; and as Mr. Kenny is one of your

will serve to bring out the facts referring to the merits of all subjects in which the will serve to bring out the facts referring to the merits of all subjects in which the will serve to bring out the facts referring to the merits of all subjects in which the will serve to bring out the facts referring to the merits of all subjects in which the will serve to bring out the facts referring the writer, favorable to one breed and under advantageous or profitable. But even if favorable to others, they would carry not ageneral fertilizer of soil at all, still bour here. The objectors say, 'Libour is dissolved in the atmosphere which is dissolved in the atmosphere representation.

one hundred trees, winter fruit, very merits; because we sometimes see indiin particular individuals; to see them un-The statement in reference to the big der undifferent as well as good treatment, hogs, so far as relates to the expense of and inspect the cross of each upon our their keep, the quantity of food consumed, common stock kept as stock hogs generalry, in reference to the pigs, had he stated | shire and the Grazier, upon the various breeds of scrub hogs, and after a tedious Our next quotation is from a letter by and rigid investigation of the claims of all and decided improvement. I could give "But to return to Berkshires. I know you some facts in relation to other favorite

> nothing here npon that subject.' This is strong language and we repeat

We have now had the various breeds months, of three pounds per day, as the merits; and we repeat our call for facts, last winter? Vide their statement in show fair play and do full justice to all; I have just made a most superb importa- relative value of each of the vaunted bred them, that the families from which us, then, facts, proving the superiority of day each up to the present time, and one already. Intelligible, practical facts are

From the Farmer's Register.

INQUIRIES AND REMARKS ON SALT, AS A MANURE, AND ESPECIALLY FOR COTTON. "Have you seen a late English work, Johnson on Fertilizers,' in which he discusses some recent experiments in that country on salt as a manure? particularly in combination with compost, farm-yard manure or lime. They are so important that I am anxious to see them transcribed into your useful periodical. He is spoken of in the 'Library of Useful Knowledge, as high authority, and if he is to be credited, salt would be cheap manure at two dollars a bushel. Besides, he recommends it so highly for destroying weeds, if put on a season in advance of the crop, and for destroying worms and other insects infesting a crop, that I am desirous to see it in print, that experiments may begin extensively thro' this country. I should not be surprised, from his trials, that a topdressing of a bushel an acre, sown over cotton in June, should destroy the worm which has so dreadfully consumed our crops in the South. At that season of the crop, the worm is burrowed about six or seven inches deep in holes made in the ground; and he informs us that worms in | ted States will not neglect so great and so that situation are certainly destroyed by salt in small quantities thrown over the

The foregoing extract is from the letter of a distinguished Southern planter, whose name we are always please I to present with his communications, whenever not forbidden by his order, as in the present

The essay of Johnson, on salt as a manure, would have been published long ago, but from our want of confidence in his opinions. Upon the desire expressed above, we shall take an early opportunity to publish either Johnson's own article, or his and others opinions on that subject, as given in the 'Farmers' Series' of the Library of Useful Knowledge.' The use of salt as a manure has been frequently urged, upon the ground of great benefits hold of it with spirit, it can be made to We shall conclude now, by an extract produced by it in particular cases. It from a letter written by a gentleman of has often excited the hopes and enlisted Madison (that great hog raising county) the active zeal of some theoretical writers, to a correspondent in Clarke, who tran- and again fallen into neglect, because of

farmer is interested. While we deem an that were two and three years old—the more weight, had he stated the facts and it may be highly beneficial as a destroyer too high in this country for us to use it in the writer appears to have exerted and ac- to give so strong a dose as to injure the making every thing else, as high as that does not furnish the true test. We would certain crops. This last opinion we have make brick, (formerly imported, as well as long entertained, and have before express- silk, (if the price of our labour is too "Mr. - and myself endeavored at the ed it in this journal, as well as we have high? This argument is fallacious. It Winchester fair to determine which, published every known fact on this very is not the price of labour that precludes when they were turned on grass, and 1st among the several rival breeds of hogs, is important point. Many plants cannot the production of any article, but the scarthat was, to rear a large number of each July upon rye that was less than two bush. the best. We carefully examined the grow except on a salt soil. There is no city of enterprize, and ingenuity, of a breed, under the usual mode of treatment els to the acre, (what was cut and I cut specimens of each that were exhibited doubt that salt is a specific manure for want of a proper direction of them. A the best of it,) after which about a hun-there, and concluded that the very best asparagus, and there is a good reason to new country will not be likely to enter believe that it is also a specific manure upon the production of articles of luxury, they had access to an apple orchard of a fair test of their relative value or of their for the very important crop, cotton, On the whole attention of their enterprizing the latter head, see articles at page 677, and ingenious men being occupied in provol. iv., and pages 45 and 46, vol. v.-The two first we copied from the Southern Agriculturist.' The last, our (editorial remarks) being short, will here be cop- of luxuries will commence, in spate of the

> "It seems to us that salt must act as a specific manure for cotton, and is essential to produce the fineness of fibre that constitutes the value of the sea island cot- doubt. But like all other pursuits, it ton. As different as are the quality and must be followed by business men in a appearance of this cotton from the green business.like manner. To make money seed, or short staple upland cotton, they from the culture of silk, requires a due deand half Woburn-killed Nov. 17, that therefore determined that the best mode are but varieties of the same kind, the gree of enterprize, perseverence, skill, and most of which, rapidly runs into the other, economy-nothing more. And in what by a mere change of soil. The one kind other pursuit can money be made without is raised, in perfection, only on the low all these? We are told, that the failures sandy islands on the sea coast of Georgia last season were so numerous that, at best, and South Carolina, and the adjacent the business will be a precarious one. We shores of the main land. If the seeds do not draw the same conclusion from the (which are naked and black,) are planted same premises. On the contrary, we in the interior, though but little remote consider the failures of last season the the "long staple Santee," a green seed be and of course will be avoided. If gencotton, but of longer fibre than the ordina- eral success had attended all the experiry upland cotton, into which, however. ments last year, it would have been a continued planting from the same, finally phenomenon worthy of being called the

brings the crop.

very important or essential, has not been been considered in any other country a facts, however, are not the less certain, in | that happened. Nearly all these causes of tion from England and have every satis- breeds, be not made known, it shall be the the ascertained cases; and there may be failure may be avoided another season; all factory evidence from the persons who fault of the breeders themselves. Give many other as important cases, which have indeed, except the supply of eggs, and gained since littered in April 1 3-4 lbs. per had, in all conscience, too much of them (sulphate of lime) is another important tablish the silk culture upon a firm basis, specific manure for clover. but not as indispensable to its existence as other during the present season, to collect and forms of lime. The acid of earth, which distribute all the information on the subis a poison to valuable crops, is indis- ject that shall come within our reach. pensable food, or a specific manure, for We shall continue to receive from France, sorrel, poverty grass, and some kind of early information of all improvements in pine trees-none of which can live after machinery and in practice; and we shall this acid has been effectually neutralized leave no source of informa ion unappealed by manuring with lime. If then, though to for the same purpose. in a less essential degree, salt is a specific manue for cotton, it may well be friends of the good cause to aid us. To that a very small quantity may produce im- every one of them we appeal to get all the portant improvements to the growth, sub cribers they can for the Journal. As though no other cultivated crop might re- we are not begging for our own benefit, ceive any perceptible benefit from a like but for the benefit of those who give, we application.

From the Jour. of the Am. Silk Society.

anxiety and trepidation. We have tions. We are precluded from mentionnecessary to pay the expenses of the pub- which we regret, as it might act as a stilication; but what we lack in number of subscribers, is made up in hope-hope, that the good cause in which we are engaged will yet be sufficiently prosperous to afford us the means of publishing the Journal; hope, that the people of the Unigood an opportunity of benefitting themselves and their country, as the culture of silk affords; and that in turning their attention to it, the Journal will be considered by them, one of the most important aids to the attainment of the great object. We therefore, once more launch our little of air. Hence the writer supposes or calbark for another voyage and trust to the good sense of the people, who are to be exclusively benefitted, for a sufficient sup ply of small stores to support us to the end

Silk will yet become one of the three great staples of the country; nothing can prevent this. Enough has already been done to ensure that result. But whether it shall become so sooner or later, depends upon the exertions now made and making to accomplish it. If the people will take take this place in four or five years; if it must be permitted to work its own way into favour, by the force merely of the persevering example of a few operators, it will require a much longer time,

ducing necessaries; but as soon as a supply of these is secured, or the number of such men is increased, then the production price of labour, and the opposition of apathetic croakers.

That silk will be a profitable pursuit we have not now, and never had, a single from the sca, the product is what is called | natural result of natural causes, which can eighth wonder. We are only astonished, "It has been supposed that the very san- that we ever could have expected any dy nature of the soil of the sea islands was thing better than what happened. Let us the cause of the peculiar value of the cot- look at the subject for a moment. Those lon which they bear. But if so, some who attempted the making of silk, with spots, at least, might be found equally san- very few exceptions, went into it blindfold dy in the interior of the country, and the as it were, without experience, with very same kind of cotton be there produced little knowledge, and with the worst possuccessfully. But the accounts we have sible and conceivable means. They were in the foregoing and other articles of the in the fitful delirium consequent upon the peculiar value of salt mud and salt grass, excitement of the tree mania; they were as manure for cotton, indicate plainly that | misled by interested advisers as to the skill salt itself is necessary for the perfection of required in raising and managing worms, cotton, and that it is owing to the salt al- and as to the profit to be made; and added ready in the soil of the sea islands, and the to all this, they were unfortunately supadjacent low coast, that to such narrow plied with bad eggs, and still more unforlimits the production of that valuable vari- tunately, badly advised as to their manety of cotton has heretofore been con- agement. And we may add another to the list of causes; nearly the whole supply In what manner specific manures act of leaves was derived from young immaupon the plants for which they are either ture trees, which, of itself, would have satisfactorily explained in any case. The sufficient cause for all the misfortunes not yet been observed. Thus carbonate the proper mode of keeping them, for suc. of lime, or some equally serviceable form cessive crops. There are few good eggs pr. day, made barrows and shoved in their ment fully and fairly and then give us of combination of lime, and in considera. in the country, and still fewer adapted to pair of pigs, sent with one of the sows, has bugging puffs will be admitted; we have to the growth of clover. Gypsum there are enough to enable this year to es-

It will be our business, and our pleasure

Once more, therefore, we appeal to the are not ashamed to say, that we will receive contributions to aid in the publication of the Journal. And here we must EDIGOR'S ADDRESS TO SILK CULGURITS. acknowledge the liberality of several gen--We enter upon the publication of the tlemen, who have contributed considera: Silk Journal another year, with no little bly more than their individual subscripnot one-fourth the number of subscribers ing their names by their own request, mulus to others to do likewise. G. B. S.

EXISTENCE OF AMMONIA IN THE ATMOS.

PHERE AND IN RAIN WATER. In a notice of Liebig's Organic Chemstry applied to Agriculture and Physiol. ogy, in Silimans Journal of science for lanuary, we find it stated that ammonia had been discovered in the atmosphere,

and in rain water and snow. A pound of rain water was found to contain one quarter of a grain, and that this was absorbed from 20,890 cubic feet culates that a field of 26,917 square feet would receive in a year upwards of 80 of lbs. ammonia. The writer observes that the presence of ammonia in rain water may be shown by adding a little sulphuric or muriatic acid to rain water and evaporating it in a clean porcelain vessel nearly to dryness, when the ammonia may be detected by allowing a little powdered lime which will liberate the ammonia. Thus produced it has an offensive animal

Ammonia is found more or less in all animal manurcs, when they are do ompo-

The writer above alluded to thinks that in the discovery of ammonia in the air, a clue is obtained to the true cause of We have heretofore discussed the ob- the fertilizing properties of plaster of Paris. jection made to the culture of silk, on the He observes that the sulphate of lime